Digital Video Recorder 440/480 Series

www.boschsecurity.com

BOSCH
Invented for life

The Bosch Video Recorder 400 Series is a 4/8 channel digital recorder that uses the latest H.264 compression technology. With a built-in web server for browser-based video management, the 440/480 Series is a fully integrated, stand-alone video solution that's ready to go, straight out of the box.

Available in 4-channel and 8-channel versions, the 400 Series features a highly reliable embedded design that minimizes maintenance and operational costs.

Features

▶ 4/8-channel real-time recording (120/240 IPS CIF)

▶ Reduced storage and bandwidth requirements

▶ High resolution recording and viewing

▶ Remote viewing, playback, control and configuration

▶ Flexible viewing with two monitor outputs

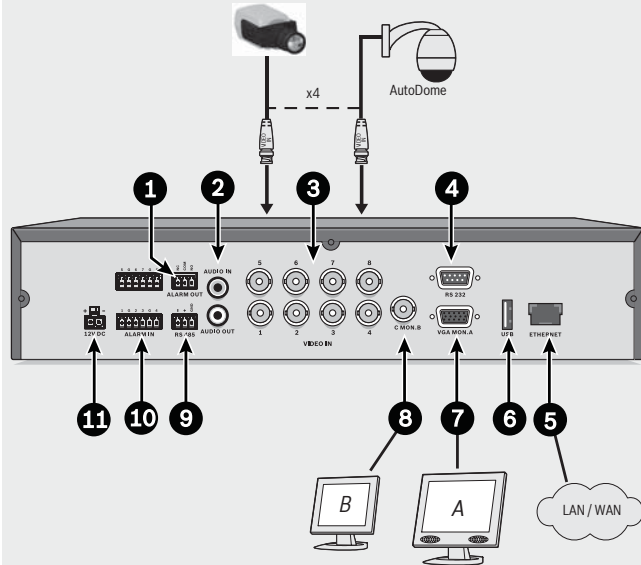▶ Live display for mobile devices

Technical Specifications

Electrical	
Rated Voltage and Power	
External power adapter AC input	110–240 VAC; 50/60 Hz; 1.8 A
External power adapter DC output	12 VDC; 3 A
DVR Power input	12 VDC; 3.5 A
Video	
Video Standard	SVGA PAL / NTSC auto-detect
Live Resolution	SVGA: 800x600, 1024x768 or 1280x1024 PAL: 720x576, NTSC: 720x484
Digital Zoom	2 times
AGC	Automatic gain adjustment for each video input
Compression	H.264
Inputs	Composite video 1 Vpp, 75 ohm, automatic termination
Outputs	Monitor A: VGA RGB Monitor B: 1 Vpp, 75 ohm, sync. 0.3 V ±10%
Audio	
Input	Mono RCA, 1.0 Vpp
Output	Mono RCA, 1.0 Vpp
Compression	ADPCM
Sample rate	16 kHz per channel
Bit rate	8-bit
Alarm Handling	
Inputs	4/8 Inputs configurable NO/NC, max input voltage 15 VDC
Outputs	1 Relay output, configurable NO/NC, max. rated 30 VAC, 30 VDC 0.5 A continuous
Control	
RS232	Output signals according to EIA/TIA-232-F, max. input voltage ±25 V
RS232 Support	Bosch domes via RS232/Bi-phase converter
RS485	Output signals according to RS485, max. signal voltage -8 to +12 V
RS485 Support	Bosch domes, and Pelco P and D
Connectors	
Video Inputs	4/8 BNC
Monitor	1 VGA d-SUB, 1 BNC
Alarm connectors	Screw terminal inputs, cable diameter AWG26-16 (0.13-1.5 mm)
Audio Inputs	1 RCA (CINCH)
Audio Output	1 RCA (CINCH)
Ethernet	RJ45, 10/100 BaseT according to IEEE802.3
RS232	DB9 Male
RS485	Screw terminal output, cable diameter AWG28-16 (0.08-1.5 mm)
USB	Type A Connector USB 2.0 on front and rear for mouse or USB memory device
Storage	
Hard Disk	1 SATA hard drive
Video recording	
Record Rate (IPS)	
NTSC	Max. 30 IPS per channel, configurable: 30, 15, 7.5, 5, 3, 1
PAL	Max. 25 IPS per channel, configurable: 25, 12.5, 6.25, 5, 2.5, 1
Recording Quality	Best, High, Normal, Low, Lowest
Average Recording Capacity	

Video recording	
CIF, Normal, 25/30 IPS	PAL: 550 Hours, NTSC: 685 Hours
CIF, Normal, 6.25/7.5 IPS	PAL: 1400 Hours, NTSC: 1700 Hours
2CIF, Normal, 12.5/15 IPS	PAL: 460 Hours, NTSC: 575 Hours
4CIF, Normal, 6.25/7.5 IPS	PAL: 370 Hours, NTSC: 460 Hours
Maximum recording rates	
Local Stream 8 channels	
4CIF	PAL: 6.25 IPS, NTSC: 7.5 IPS
2CIF	PAL: 12.5 IPS, NTSC: 15 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local Stream 4 channels	
4CIF	PAL: 12.5 IPS, NTSC: 15 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local Stream 2 channels	
4CIF	PAL: 25 IPS, NTSC: 30 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Local Stream 1 channel	
4CIF	PAL: 25 IPS, NTSC: 30 IPS
2CIF	PAL: 25 IPS, NTSC: 30 IPS
CIF	PAL: 25 IPS, NTSC: 30 IPS
Remote (network) Stream 4 channels	
CIF	PAL: 12.5 IPS, NTSC: 15 IPS
Remote (network) Stream 2 channels	
CIF	PAL: 25 IPS, NTSC: 30 IPS
Display Modes	
Monitor A	Full, quad (live and playback), Full sequence, alarm call-up (live)
Monitor B	Full, full sequence, alarm call-up (live)
Recording Modes	
Normal	Continuous recording (with or without overwriting)
Event	Input and motion recording (with or without overwriting)
Mechanical	
Dimensions (WxDxH) excluding cabling	225 x 325 x 60 mm (8.86 x 12.8 x 2.4 in)
Weight (DVR440)	2.9 kg (6.39 lb) approx. (DVR440) 3 kg (6.61 lb) approx. (DVR480)
Environmental	
Temperature	
- Operating	+0°C to +40°C (+32°F to +104°F)
- Storage	-40°C to +70°C (-40°F to +158°F)
Humidity	
- Operating	<93% non-condensing
- Storage	<95% non-condensing
Electromagnetic compatibility	
EMC requirements	
- USA	FCC Part 15, Subpart B, Class B
- EU	EMC Directive 2004/108/EC
	Immunity: EN50130-4
	Emission: EN55022 Class B
	Harmonics: EN61000-3-2
	Voltage fluctuations: EN61000-3-3

Safety	
- USA	UL60950-1
- EU	CE, EN60950-1
- Can.	CSA—C22.2 No. 60950-1

Installation/Configuration Notes

Connections on rear of DVR 480 (8 channels)

1.	Alarm output	7.	Monitor A VGA output
2.	Audio input and output	8.	Monitor B output
3.	Camera inputs	9.	RS485 connector for dome control
4.	RS232 connector	10.	Alarm inputs
5.	RJ45 network connector	11.	12 VDC power connector
6.	USB connector		

Ordering Information

DVR-440-04A050 440 Series DVR, 4ch	DVR-440-04A050
DVR-480-08A050 480 Series DVR, 8ch	DVR-480-08A-050